

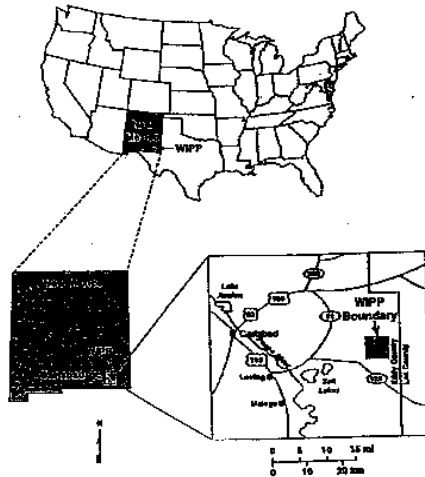
**PERMIT ATTACHMENT I2  
APPENDIX E**

**DESIGN DRAWINGS**

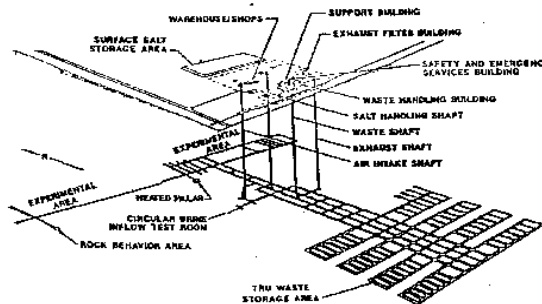
**SHAFT SEALING SYSTEM  
COMPLIANCE SUBMITTAL DESIGN REPORT**



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WIPP LAYOUT



## WASTE ISOLATION PILOT PLANT

CARLSBAD, NM

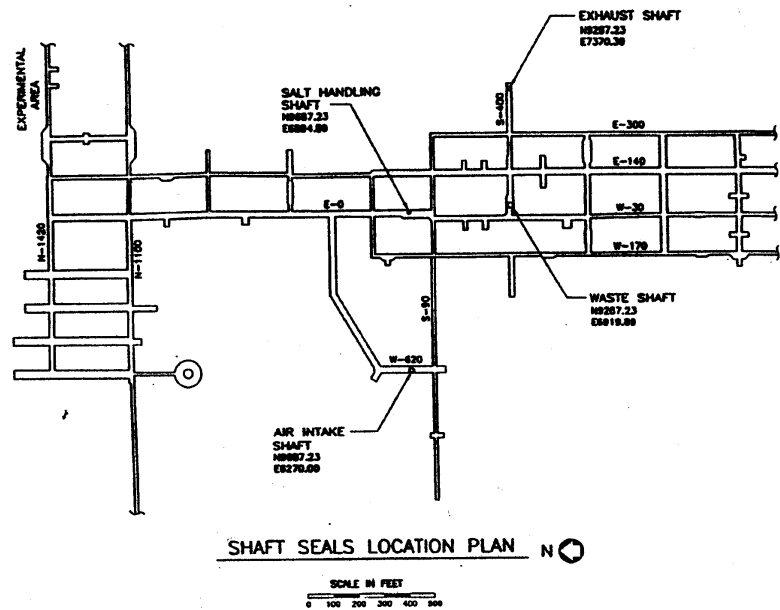
## SHAFT SEALING SYSTEM DESIGN

### DESIGN DRAWINGS

DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE
SNL-007 1 OF 28	WIPP SHAFT SEALING SYSTEM SHAFT LOCATION PLAN, ABBREVIATIONS, GENERAL NOTES AND LEGEND	SNL-007 10 OF 28	WIPP SHAFT SEALING SYSTEM SALADO FORMATION AIR INTAKE SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 19 OF 28	WIPP SHAFT SEALING SYSTEM NEAR-SURFACE/RUSTLER FORMATIONS SALT HANDLING SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE
SNL-007 2 OF 28	WIPP SHAFT SEALING SYSTEM NEAR-SURFACE/RUSTLER FORMATIONS WASTE SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 13 OF 28	WIPP SHAFT SEALING SYSTEM AIR INTAKE SHAFT SHAFT STATION MONOLITH	SNL-007 20 OF 28	WIPP SHAFT SEALING SYSTEM SALADO FORMATION SALT HANDLING SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE
SNL-007 3 OF 28	WIPP SHAFT SEALING SYSTEM SALADO FORMATION WASTE SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 12 OF 28	WIPP SHAFT SEALING SYSTEM NEAR-SURFACE/RUSTLER FORMATIONS EXHAUST SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 21 OF 28	WIPP SHAFT SEALING SYSTEM SALT HANDLING SHAFT SHAFT STATION MONOLITH
SNL-007 4 OF 28	WIPP SHAFT SEALING SYSTEM NEAR-SURFACE/RUSTLER FORMATIONS WASTE SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 13 OF 28	WIPP SHAFT SEALING SYSTEM SALADO FORMATION EXHAUST SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 24 OF 28	WIPP SHAFT SEALING SYSTEM CONCRETE-ASPHALT WATERSTOP IN SALADO FORMATION
SNL-007 5 OF 28	WIPP SHAFT SEALING SYSTEM SALADO FORMATION WASTE SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 14 OF 28	WIPP SHAFT SEALING SYSTEM NEAR-SURFACE/RUSTLER FORMATIONS EXHAUST SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 23 OF 28	WIPP SHAFT SEALING SYSTEM CONCRETE-ASPHALT WATERSTOP IN SALADO FORMATION
SNL-007 6 OF 28	WIPP SHAFT SEALING SYSTEM WASTE SHAFT SHAFT STATION MONOLITH	SNL-007 15 OF 28	WIPP SHAFT SEALING SYSTEM SALADO FORMATION EXHAUST SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 24 OF 28	WIPP SHAFT SEALING SYSTEM UPPER AND LOWER SALADO COMPACTED CLAY COLUMNS
SNL-007 7 OF 28	WIPP SHAFT SEALING SYSTEM NEAR-SURFACE/RUSTLER FORMATIONS AIR INTAKE SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 16 OF 28	WIPP SHAFT SEALING SYSTEM EXHAUST SHAFT SHAFT STATION MONOLITH	SNL-007 25 OF 28	WIPP SHAFT SEALING SYSTEM COMPACTED SALT COLUMN
SNL-007 8 OF 28	WIPP SHAFT SEALING SYSTEM SALADO FORMATION AIR INTAKE SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 17 OF 28	WIPP SHAFT SEALING SYSTEM NEAR-SURFACE/RUSTLER FORMATIONS SALT HANDLING SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 26 OF 28	WIPP SHAFT SEALING SYSTEM CONCRETE FILL
SNL-007 9 OF 28	WIPP SHAFT SEALING SYSTEM NEAR-SURFACE/RUSTLER FORMATIONS AIR INTAKE SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 18 OF 28	WIPP SHAFT SEALING SYSTEM SALADO FORMATION SALT HANDLING SHAFT STRATIGRAPHY & SEALING SUBSYSTEM PROFILE	SNL-007 27 OF 28	WIPP SHAFT SEALING SYSTEM RUSTLER COMPACTED CLAY COLUMN
				SNL-007 28 OF 28	WIPP SHAFT SEALING SYSTEM COMPACTED EARTHIER FILL AND CONCRETE FILL

12

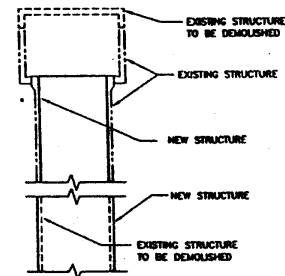
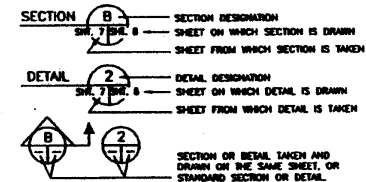
Waste Isolation Pilot Plant  
Hazardous Waste Permit  
August 31, 2001



**GENERAL NOTES:**

1. THE DRIFT HANDLING SYSTEM (E-300, S-400, ETC.) IS BASED ON THE DIRECTION AND NOMINAL DISTANCE (IN FEET) THE DRIFT IS FROM THE SALT HANDLING PLANT'S DESIGNATED CENTERLINE LOCATION OF H-000, E-000, THE TOPP PLANT COORDINATE SYSTEM CENTERLINE LOCATION FOR THE SALT HANDLING SHIPT IS H000723, AND E000849. THE PLANT COORDINATE SYSTEM IS OBTAINED IN THE ATTACHED DRAWING NO. 61-7-100-10, UNDERGROUND EXCAVATIONS, DATED 6/15/92.
2. THE AS-BUILT DIMENSIONS AND DEPTHS AND/OR ELEVATIONS SHOWN IN THESE DRAWINGS ARE NOMINAL. IN THAT DIMENSIONS MAY CHANGE DUE TO LOCAL VARIANCE OF THE STRATIFICATION, OPERATIONAL MODIFICATIONS MADE TO BRINT THE CRISP CLOSURE OF THE WASTE, AND OTHER OPERATIONAL REQUIREMENTS. THEREFORE THE AS-BUILT DIMENSIONS AND THE POSITIVE ELEVATIONS FOR SITE CONSTRUCTION SHALL BE VERIFIED BY FIELD SURVEYS AND EXPLORATORY CORE DRILLING DURING SITE PREPARATION FOR THE FINAL CONSTRUCTION.
3. DRAWING NUMBERS.  
FOR CLARITY ON DETAIL AND SECTION DRAWINGS, AND NOTES, ONLY THE SHEET NUMBER IS SHOWN.

LEGEND FOR PROPOSED SHAFT SEALING SYSTEM:








































































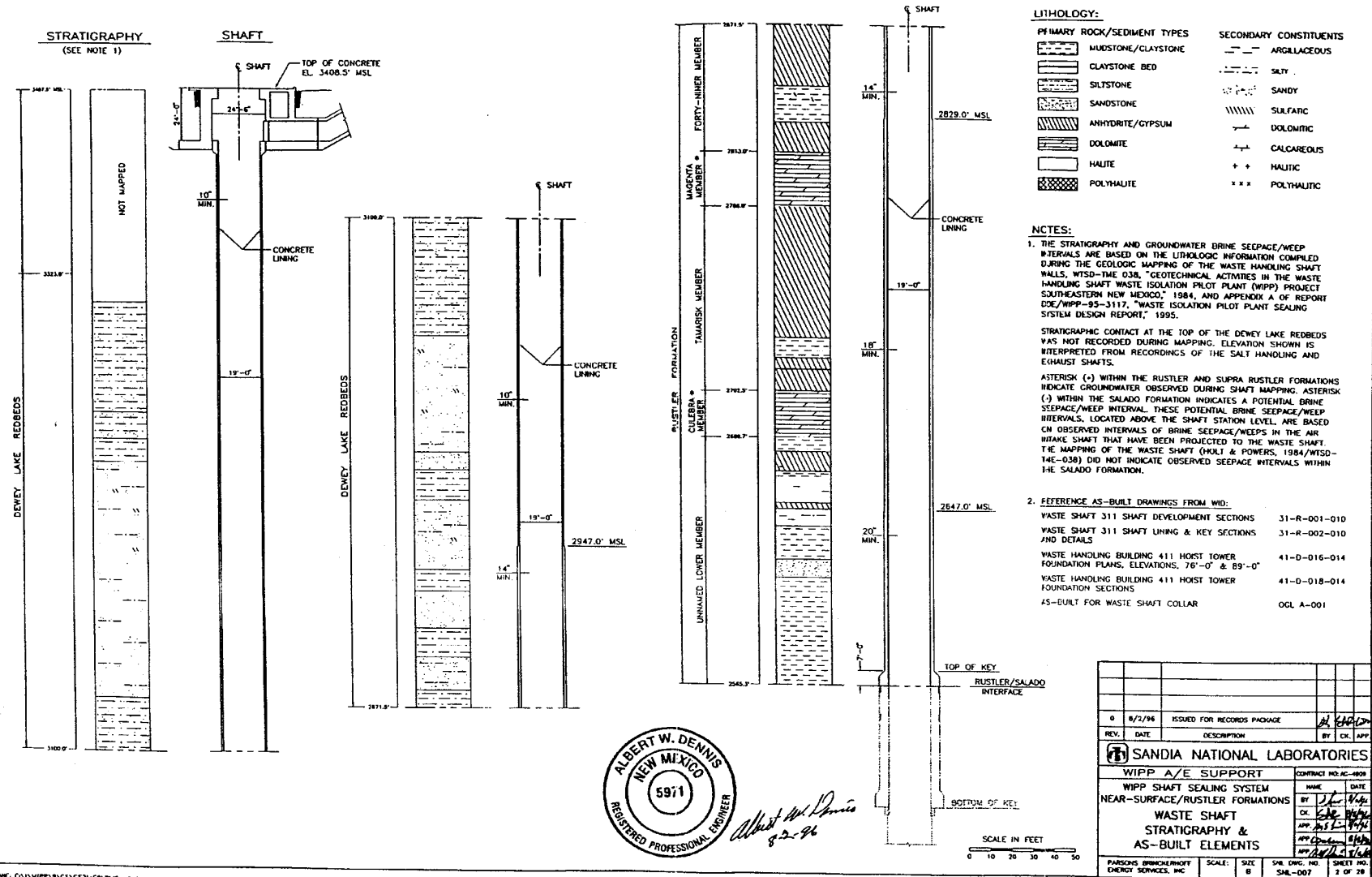
**ABBREVIATIONS:**

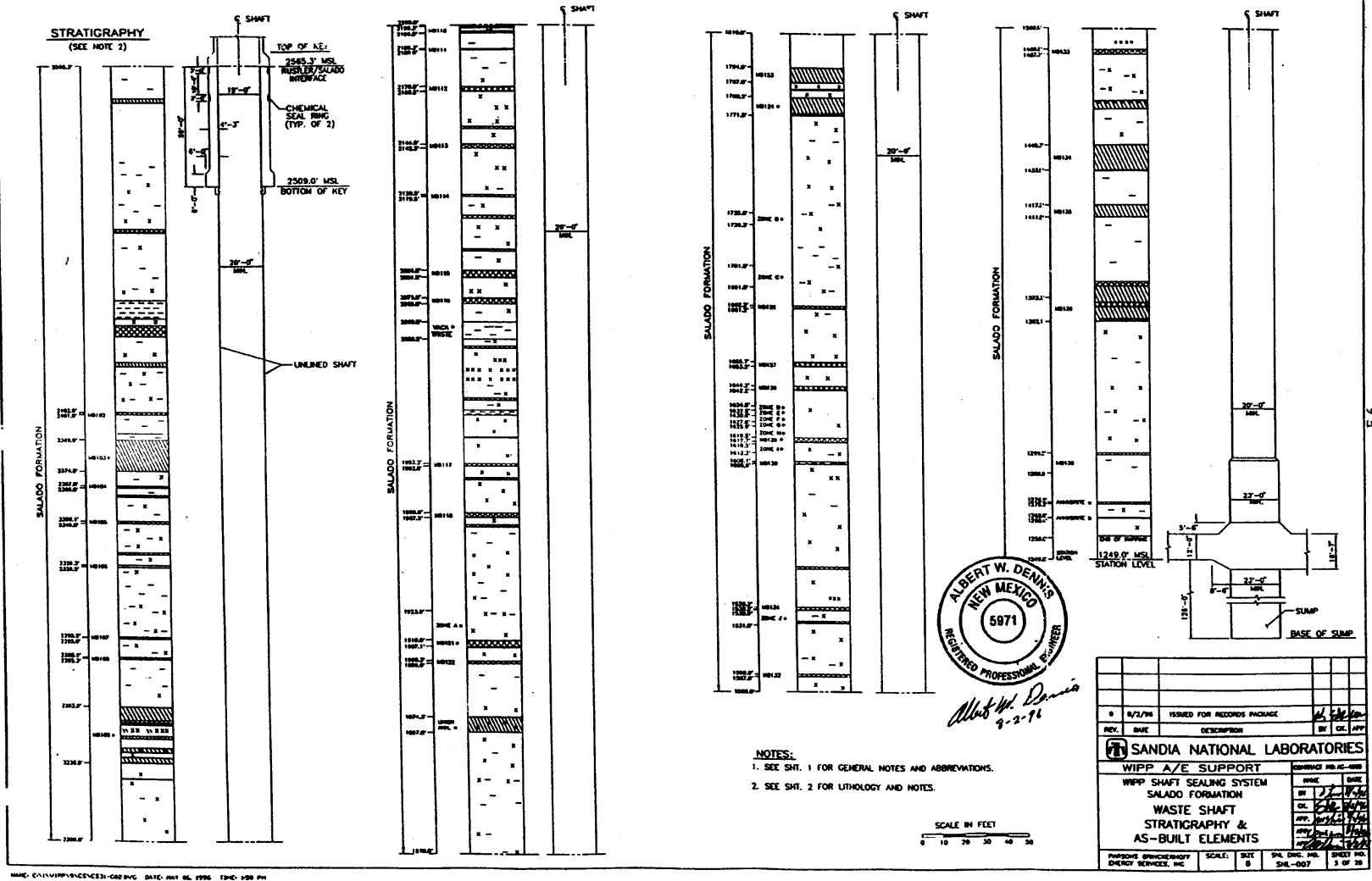
CE	CENTURINE
ASH.	ASHMORTE
CMP	CONCRETE METAL PLATE
CONC.	CONCRETE
DOE	DEPARTMENT OF ENERGY
DWG.	DRAWING
E	EAST
EL.	ELEVATION
EXIST.	EXISTING
FT.	FOOT, FEET
HT.	HEIGHT
I.D.	INSIDE DIAMETER
IN.	INCHES
MB	MARKER BED
MBL	MARSH
MSL	MEAN SEA LEVEL
N	NORTH
NO.	NUMBER
R	RADIUS
S	SOUTH
SHT.	SHEET NUMBER
SAC	SALADO MASS CONCRETE
TYP.	TYPICAL
USGS	UNITED STATES GEOLOGICAL SURVEY
W	WEST
WU	WESTINGHOUSE WASTE ISOLATION DIVISION
WPP	WASTE ISOLATION PILOT PLANT



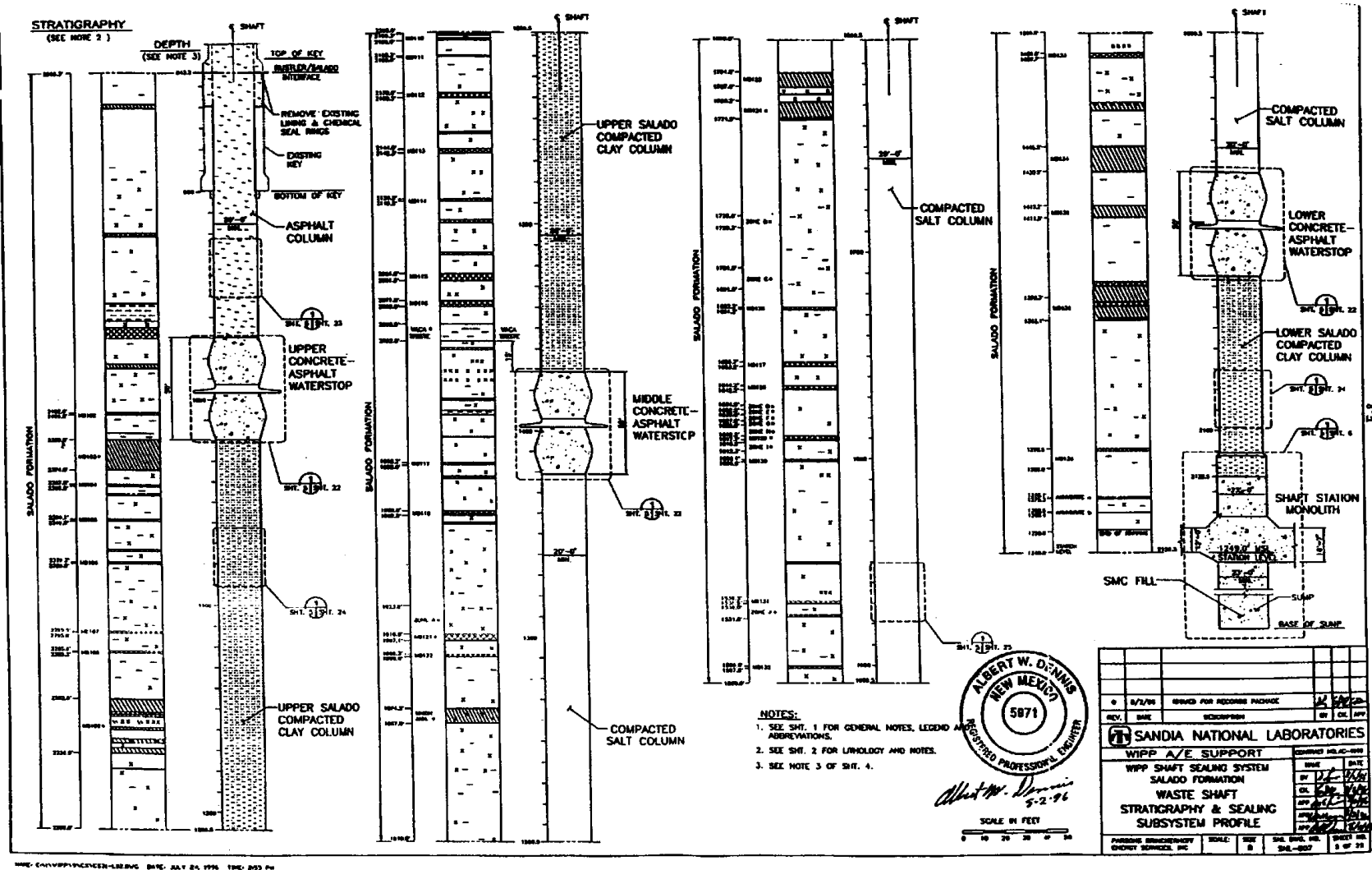
Albert W. Dennis  
9-2-96

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REV.	DATE	DESCRIPTION				BY	CHK. APP.
 <b>SANDIA NATIONAL LABORATORIES</b>							
<b>WIPP A/E SUPPORT</b>				APPROVED FOR RELEASE DATE:			
<b>WIPP SHAFT SEALING SYSTEM</b>				NAME: DATE:			
<b>SHAFT LOCATION PLAN,</b>				BY:  DATE: 			
<b>ABBREVIATIONS, GENERAL</b>				BY:  DATE: 			
<b>NOTES AND LEGEND</b>				APP:  DATE: 			
				BY:  DATE: 			
				BY:  DATE: 			
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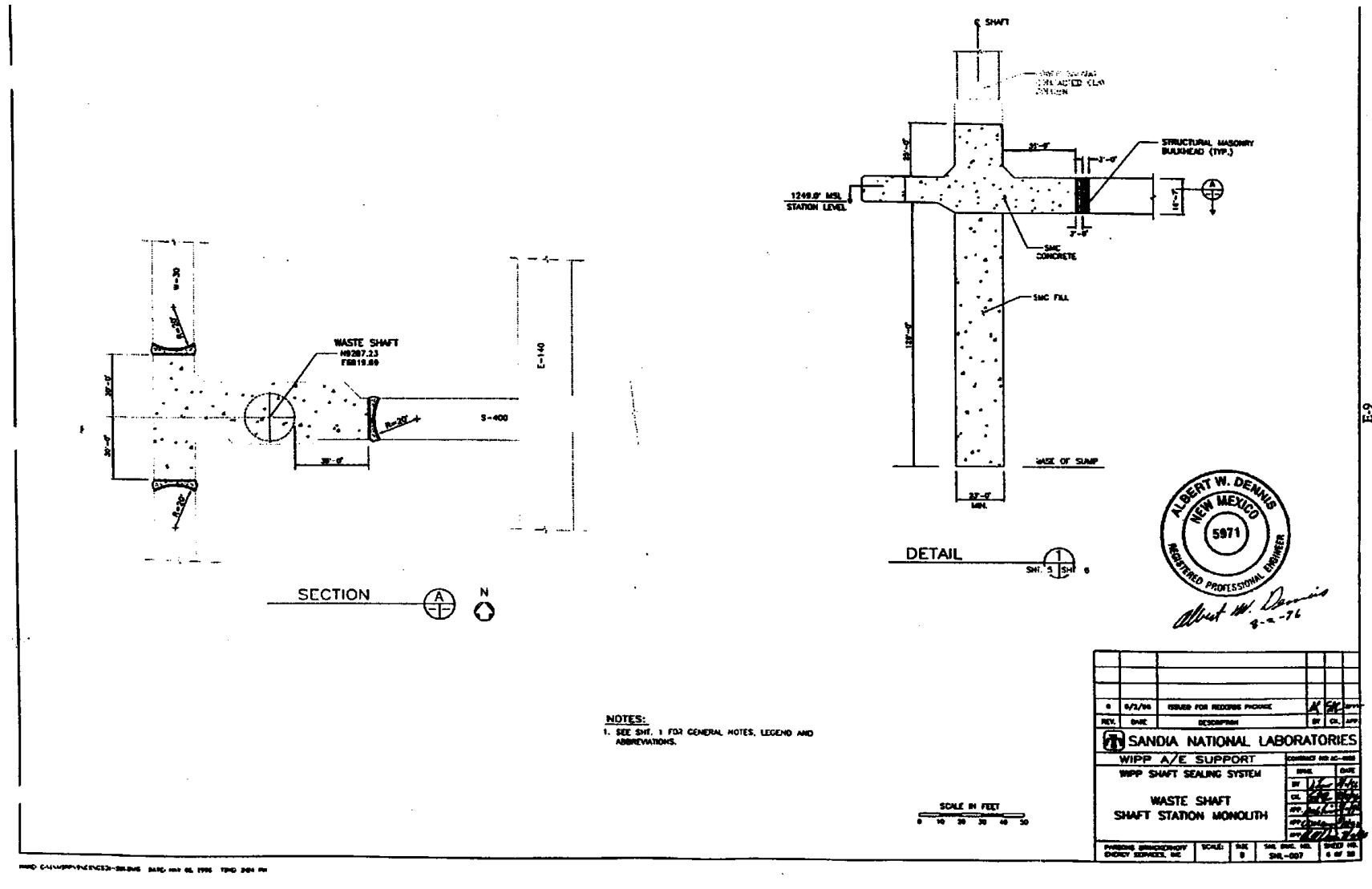


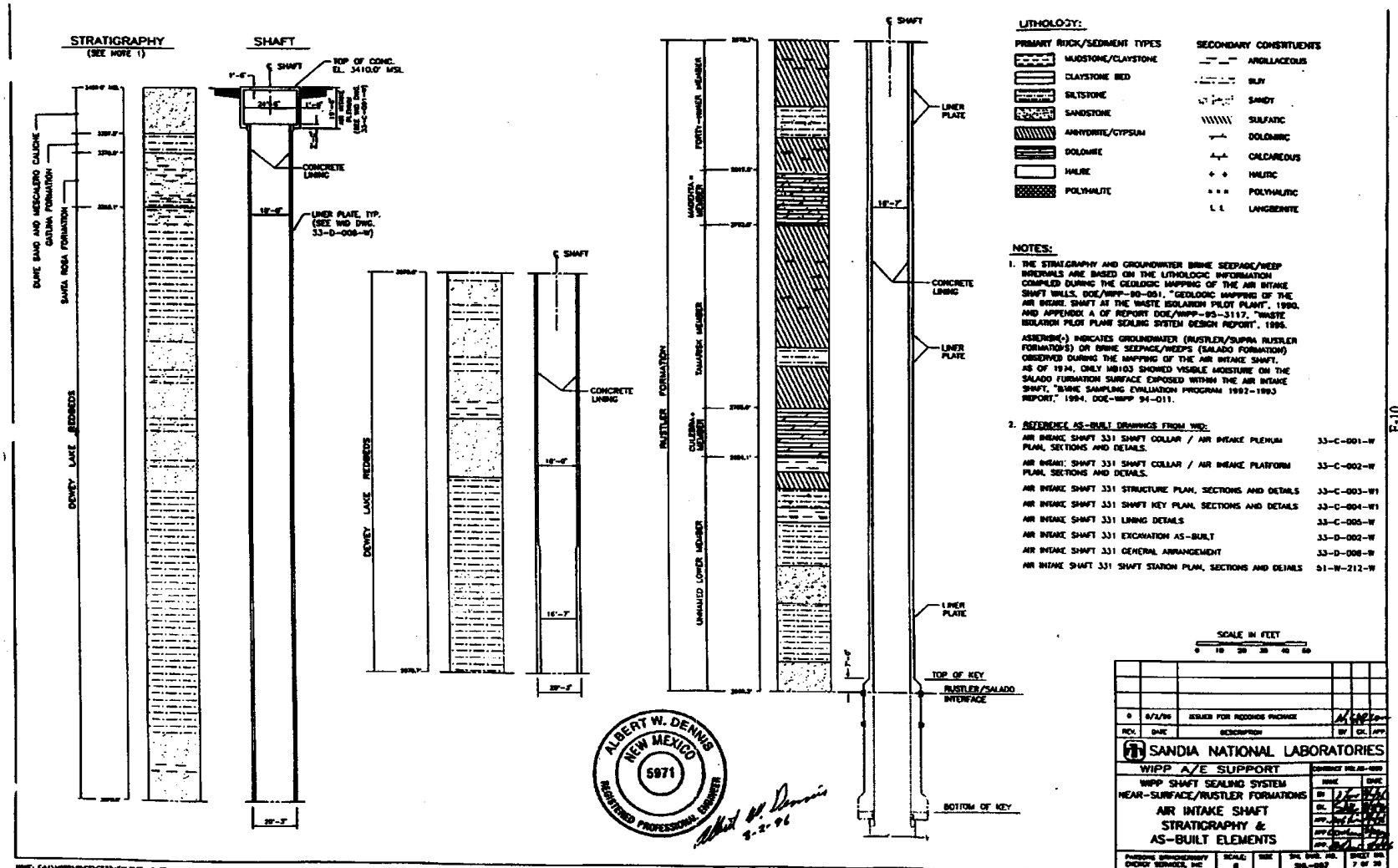


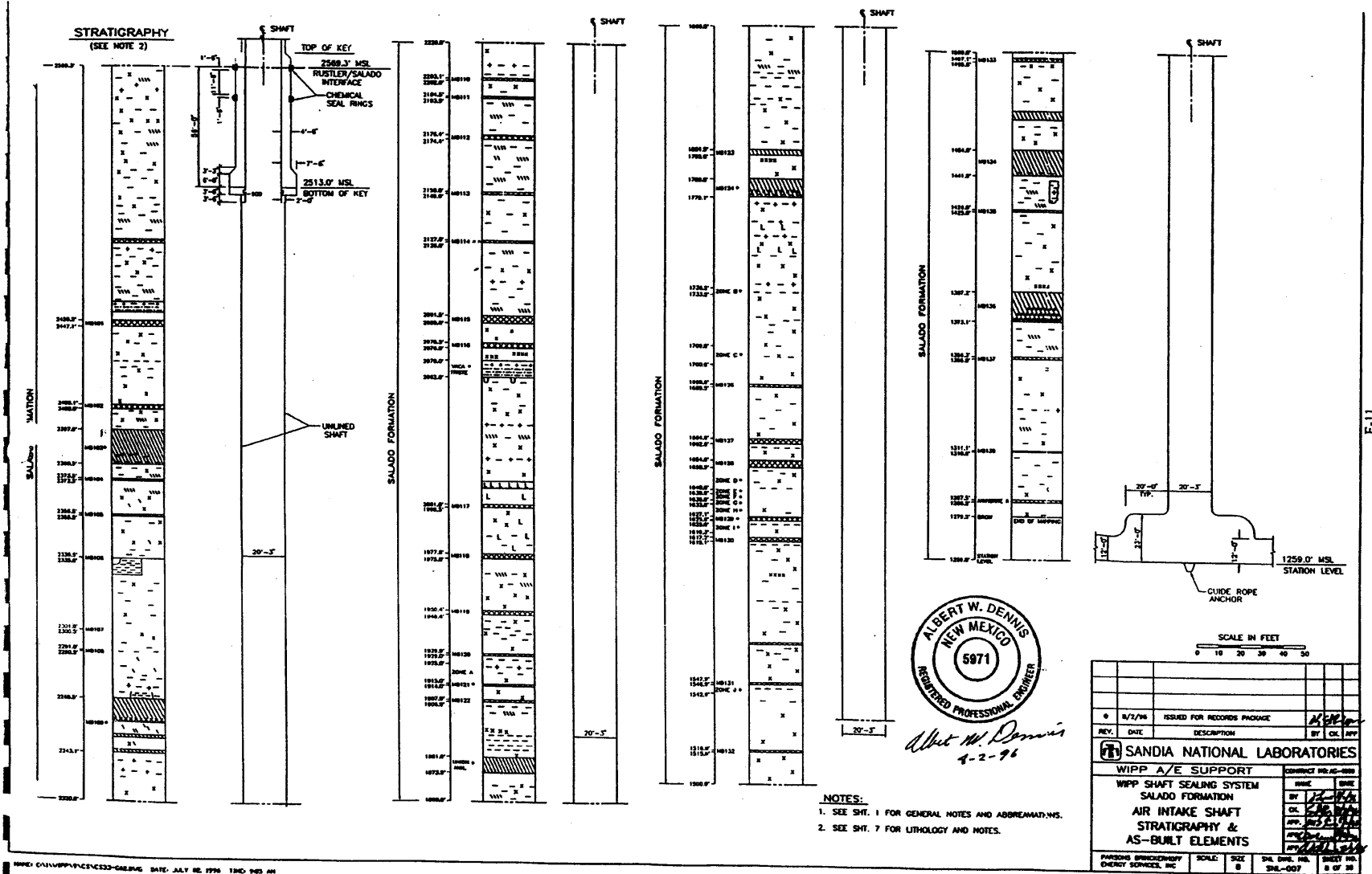


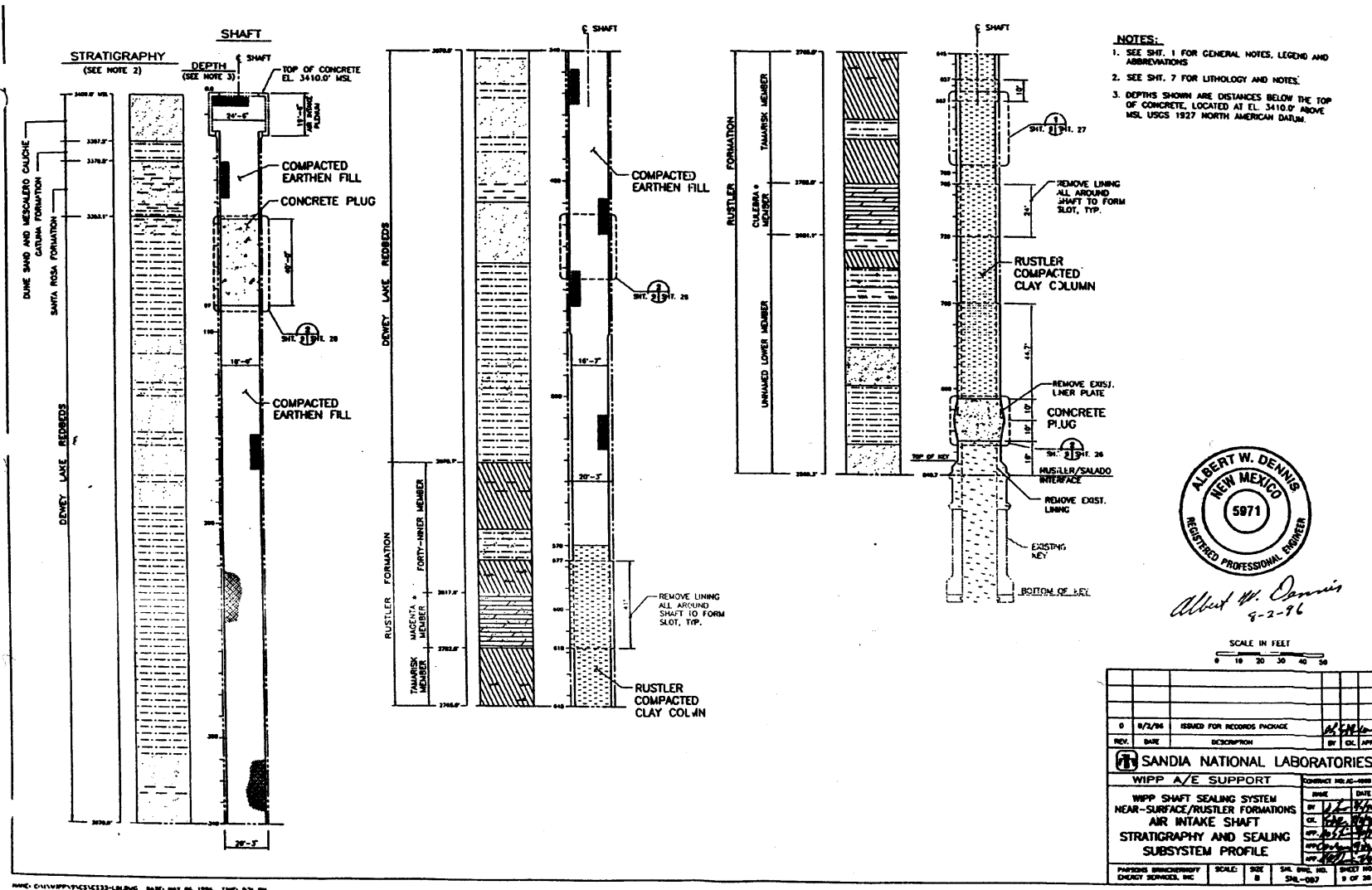




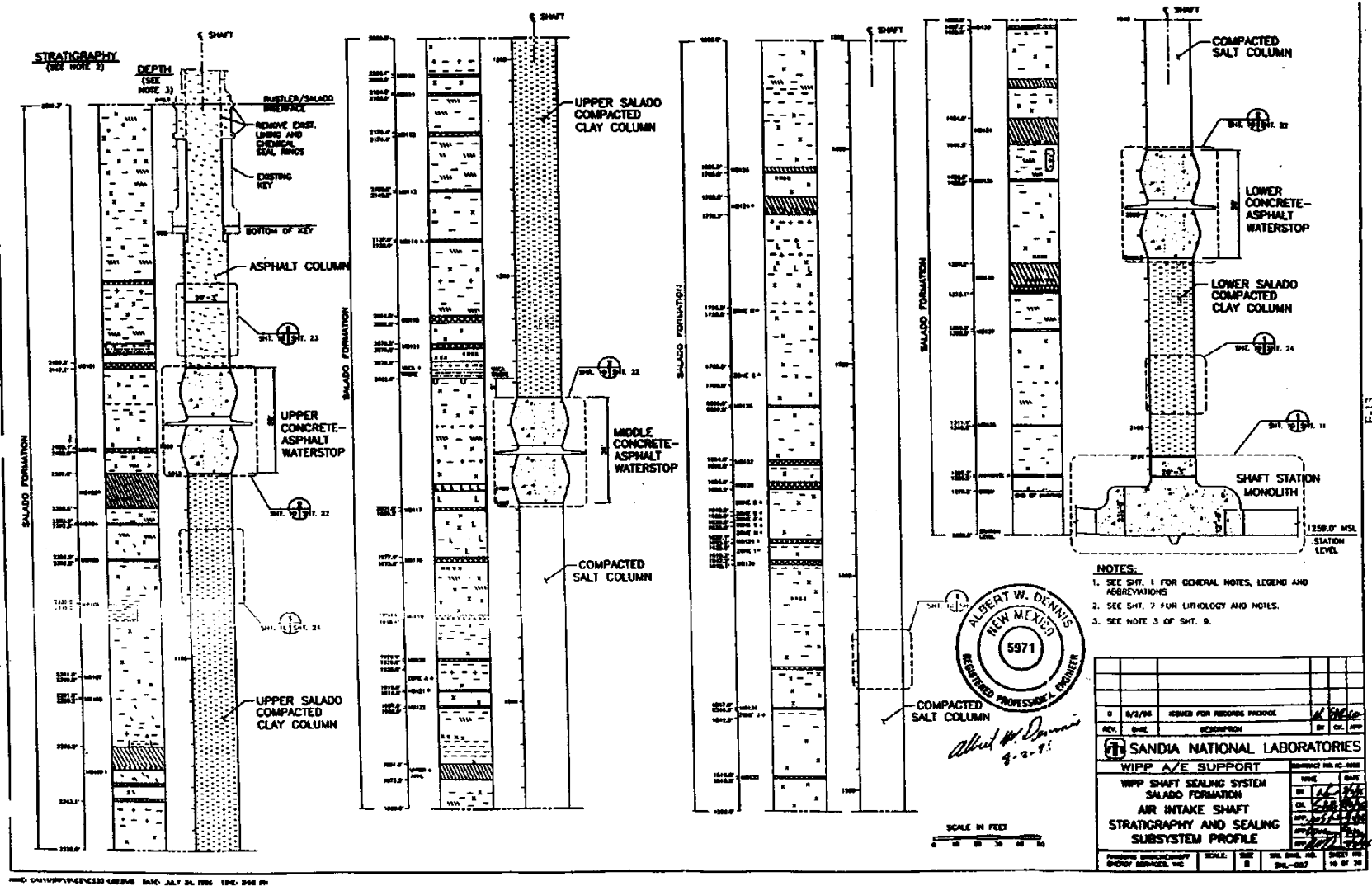


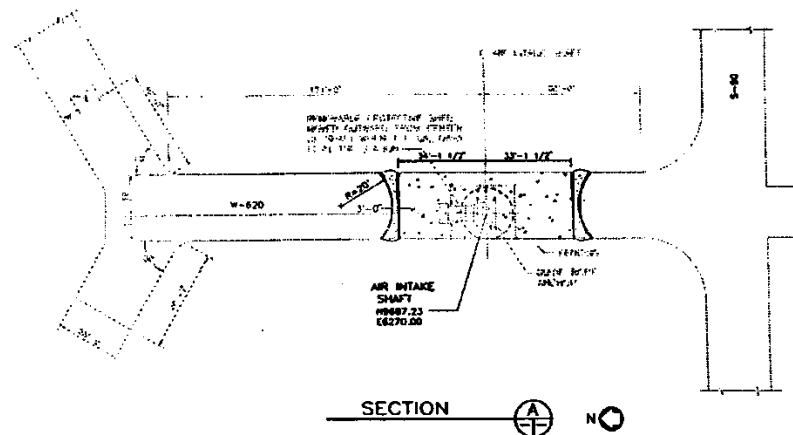
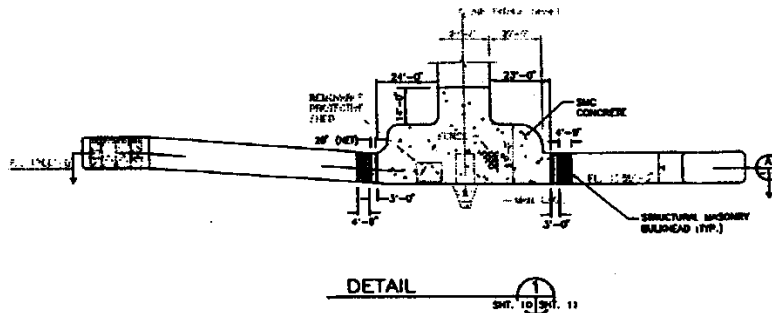






E-12





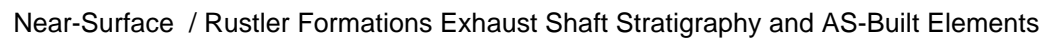
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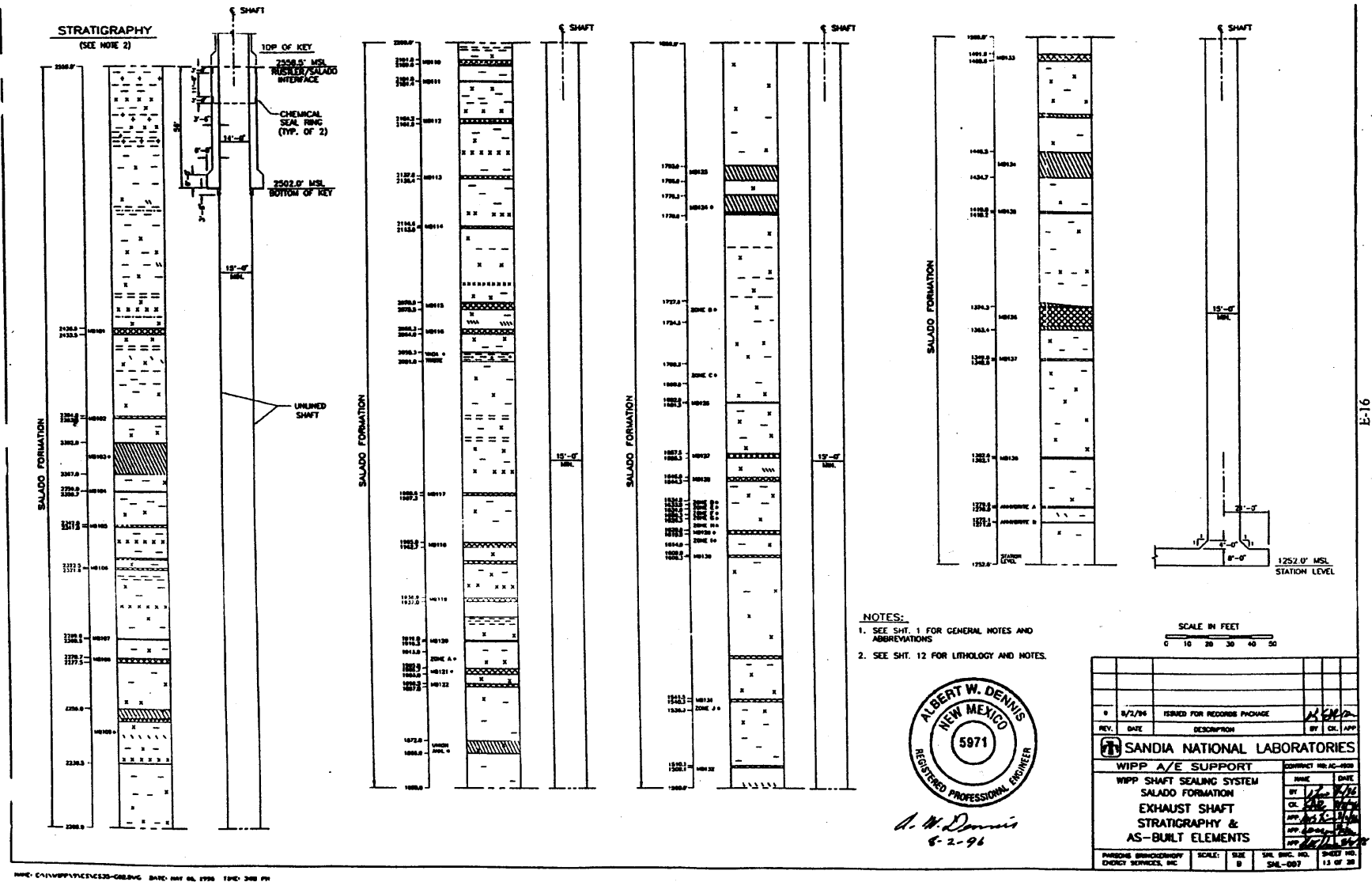
*A. W. Dennis*  
9-2-96

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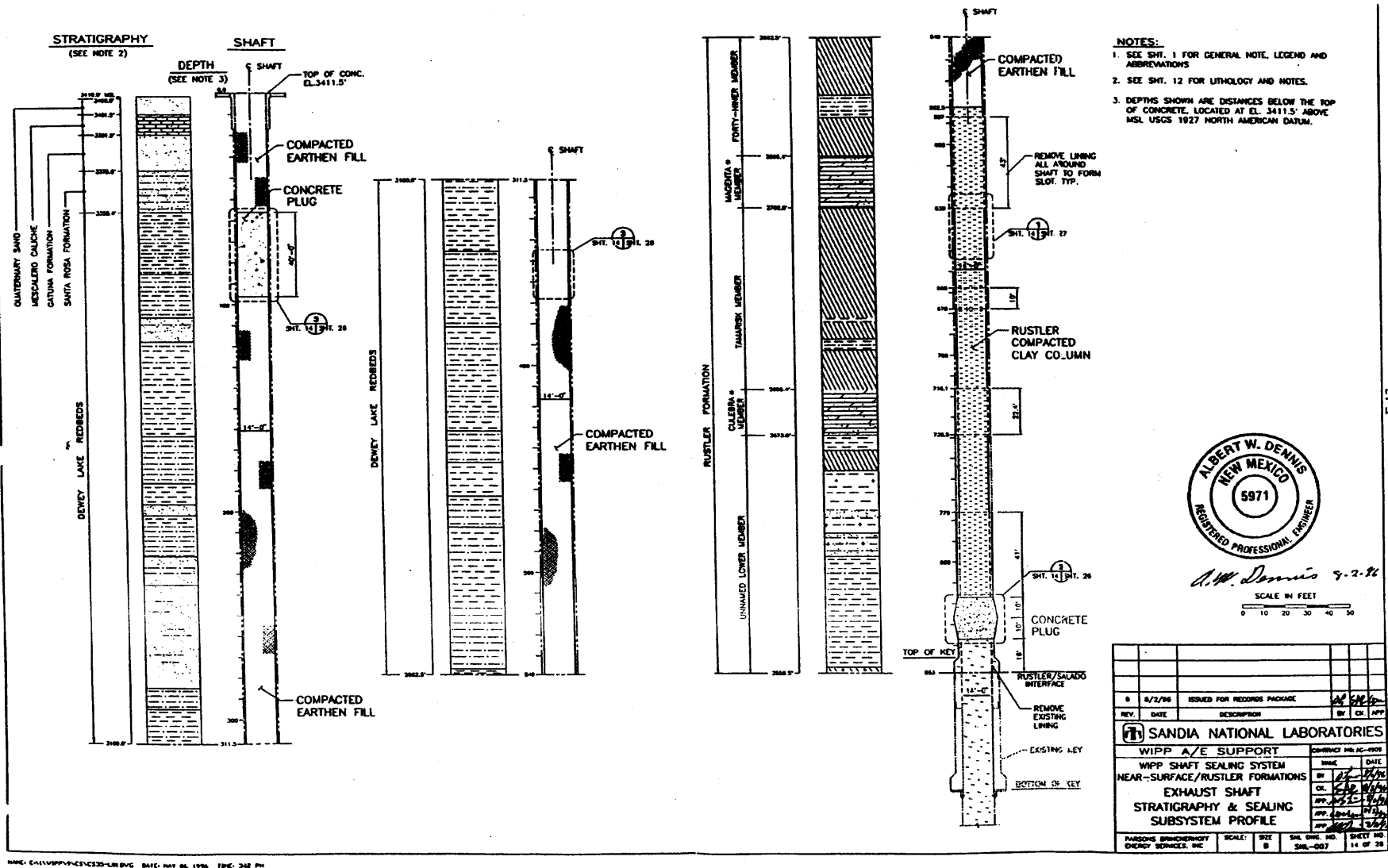
SANDIA NATIONAL LABORATORIES	
WIPP A/E SUPPORT	
WIPP SHAFT SEALING SYSTEM	
AIR INTAKE SHAFT SHAFT STATION MONOLITH	
PROJECT NO. 96-0001	DATE 11/07/96
DESIGNED BY [Signature]	CHECKED BY [Signature]
DRAWN BY [Signature]	IN CHARGE BY [Signature]
PROJECT MANAGER [Signature]	DATE 11/07/96



Waste Isolation Pilot Plant  
Hazardous Waste Permit  
August 31, 2001

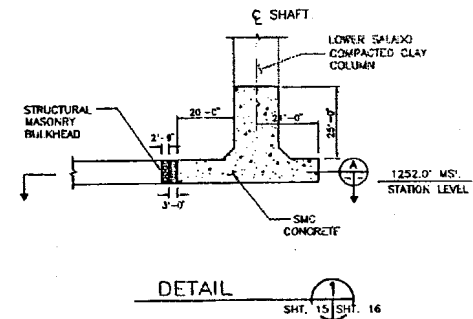
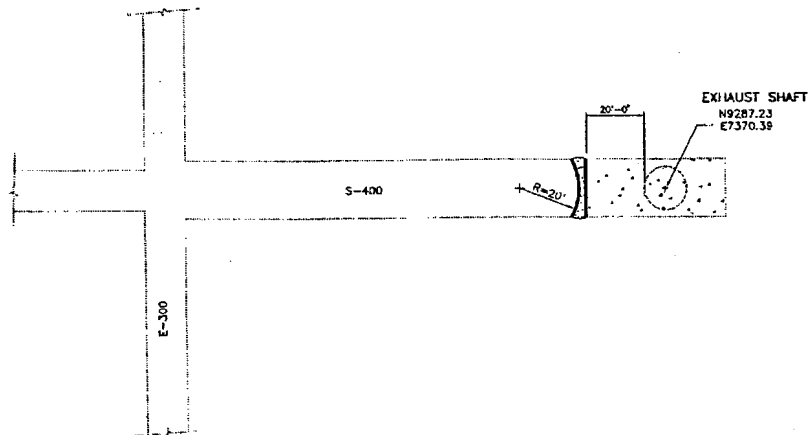






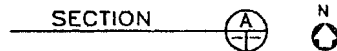
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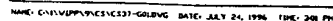
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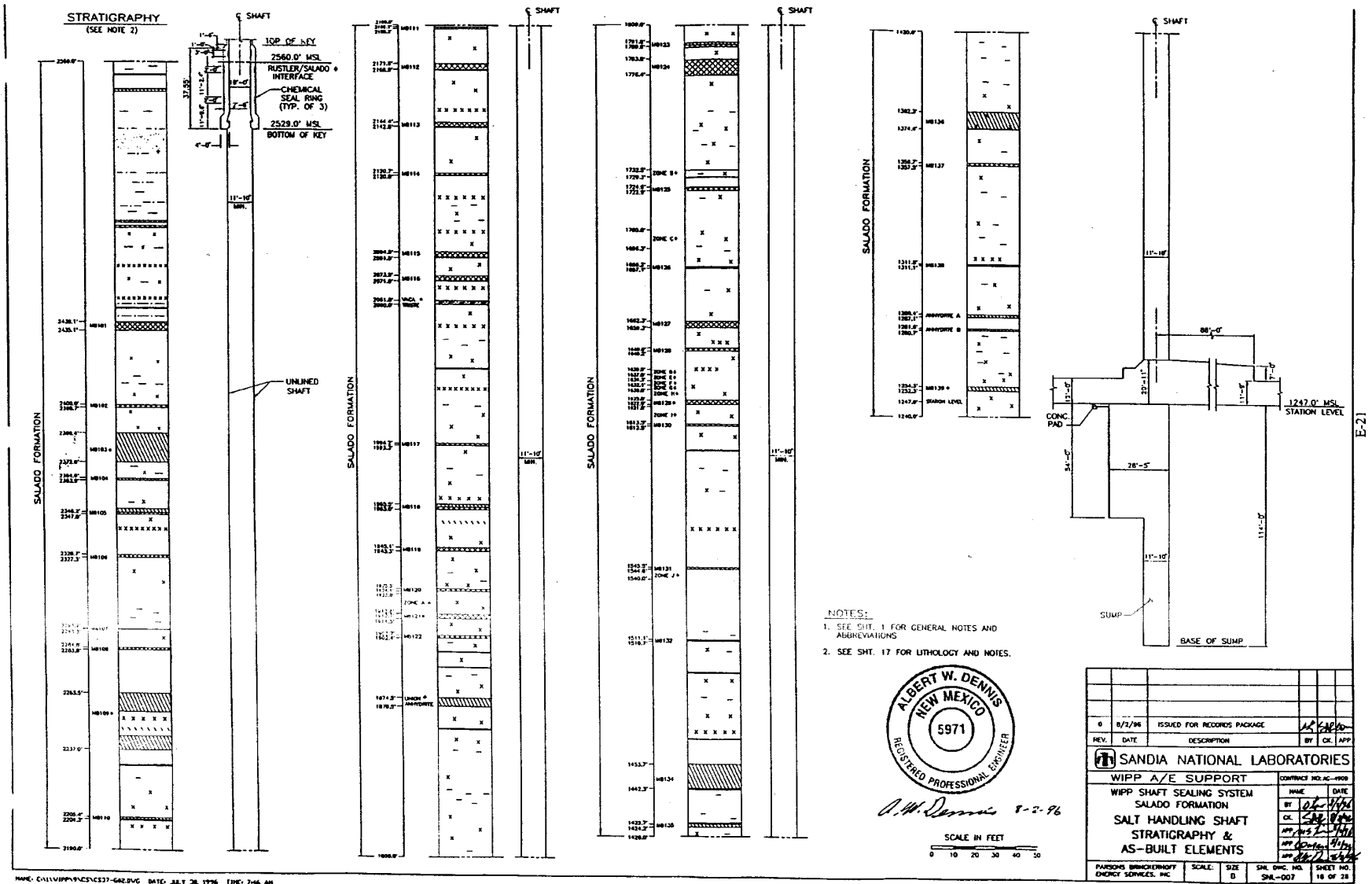
1. SEE SHT. 1 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.



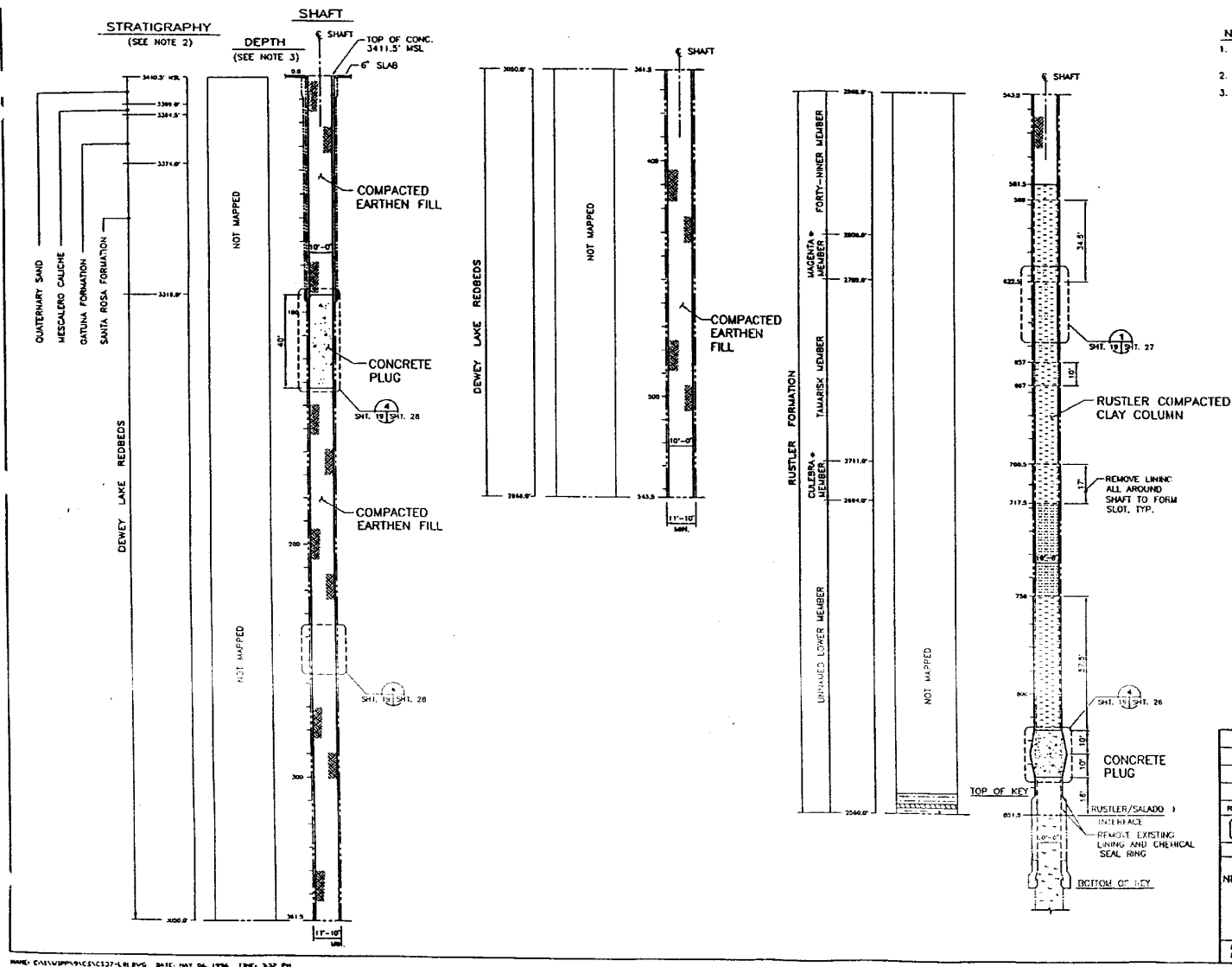
*A. W. Dennis* 8-2-96

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REV.	DATE	DESCRIPTION	BY	DATE
SANDIA NATIONAL LABORATORIES				
WIPP A/E SUPPORT			CONTRACT NO. NS-4009	
WIPP SHAFT SEALING SYSTEM			NAME	DATE
			BY	DATE





Waste Isolation Pilot Plant  
Hazardous Waste Permit  
August 31, 2001



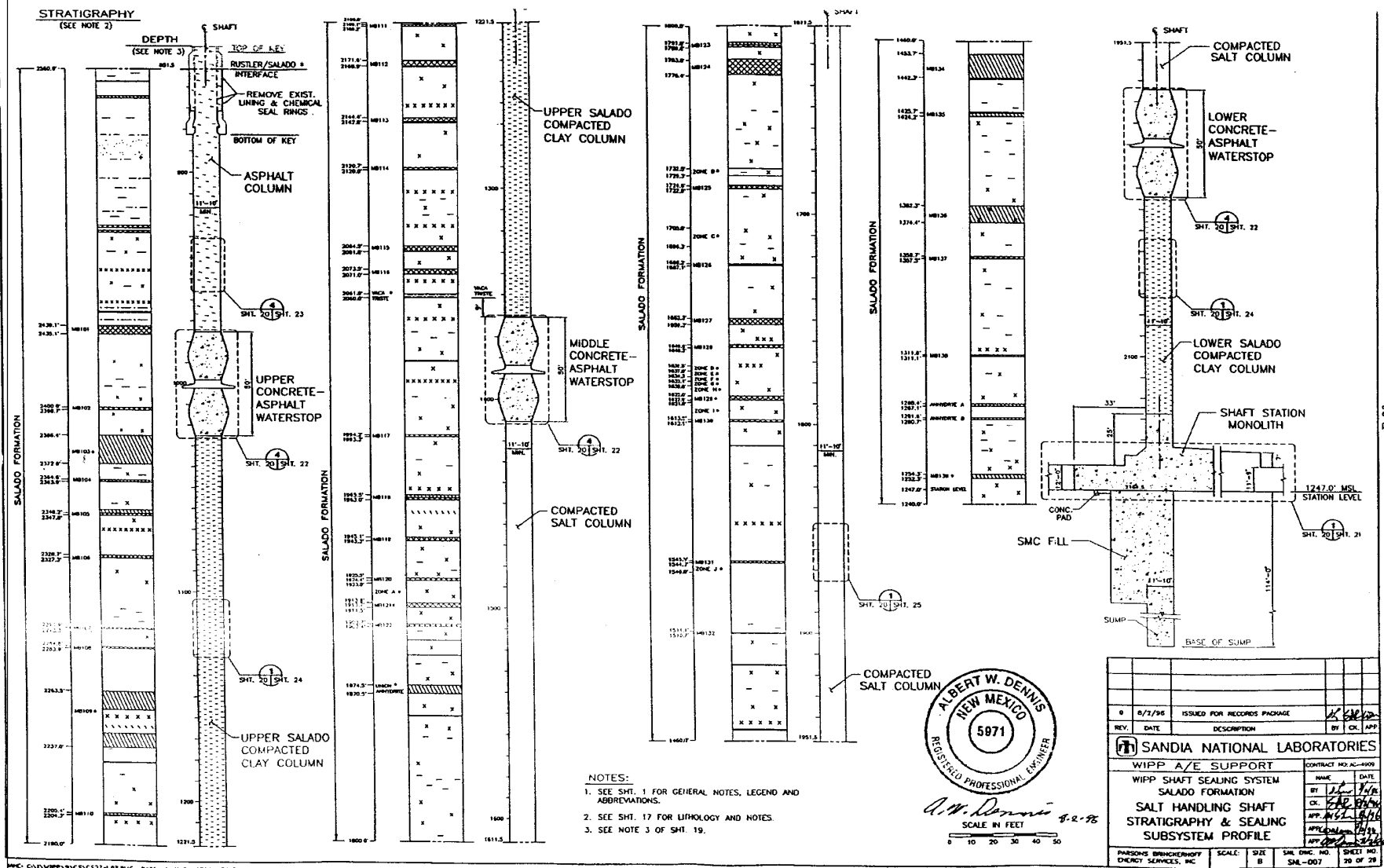
- NOTES:**
1. SEE SHT. 1 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
  2. SEE SHT. 17 FOR LITHOLOGY AND NOTES.
  3. DEPTHS SHOWN ARE DISTANCES BELOW THE TOP OF CONCRETE, LOCATED AT EL. 3411.5' ABOVE MSL USGS 1927 NORTH AMERICAN DATUM.

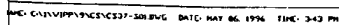


*Albert W. Dennis 9-2-96*

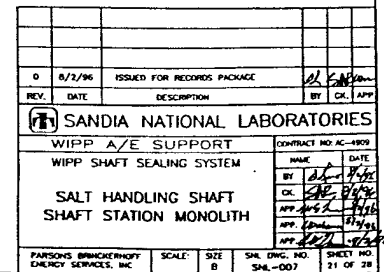
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<b>WIPP A/E SUPPORT</b>					
WIPP SHAFT SEALING SYSTEM			NAME	DATE	
NEAR-SURFACE/RUSTLER FORMATIONS			BY	08/02/96	
SALT HANDLING SHAFT			CHK	08/02/96	
STRATIGRAPHY & SEALING			APP	08/02/96	
SUBSYSTEM PROFILE			APP	08/02/96	
PARSONS BRINCKERHOFF ENERGY SERVICES, INC.					
SCALE	SIZE	SHEET NO.	SHEET NO.	SHEET NO.	
8	B	SHL-007	19	OF 28	

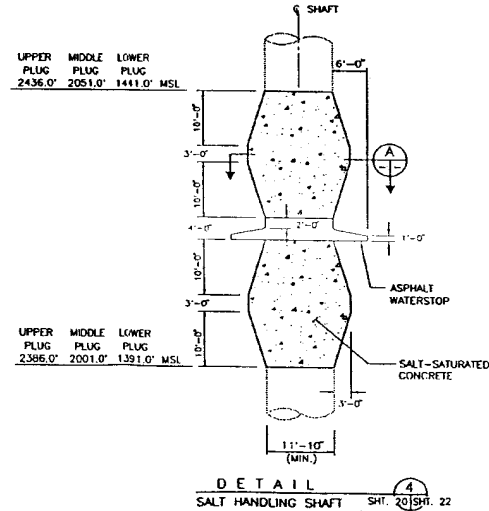
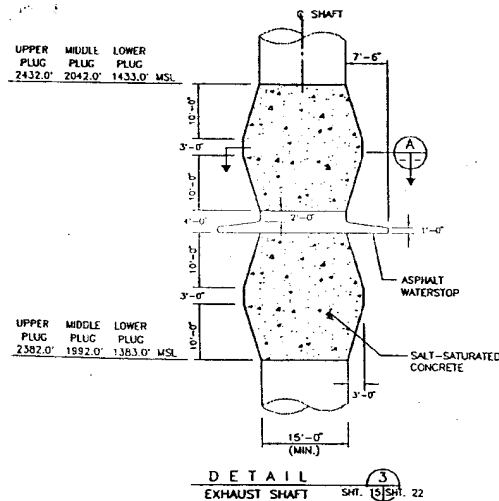
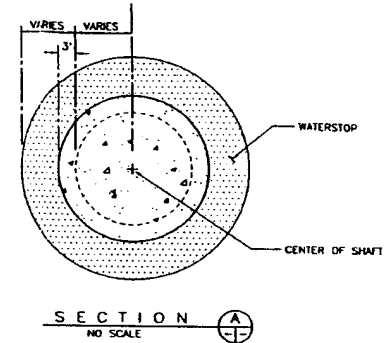
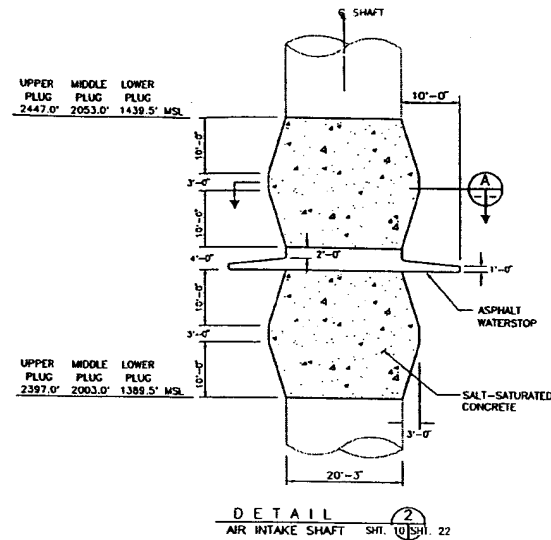
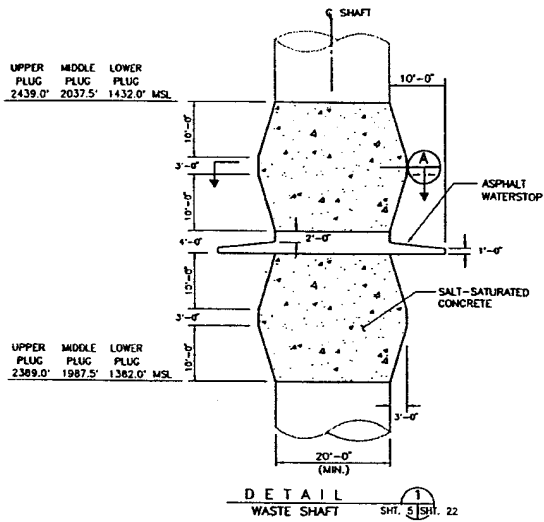




Albert W. Dennis  
8-2-16



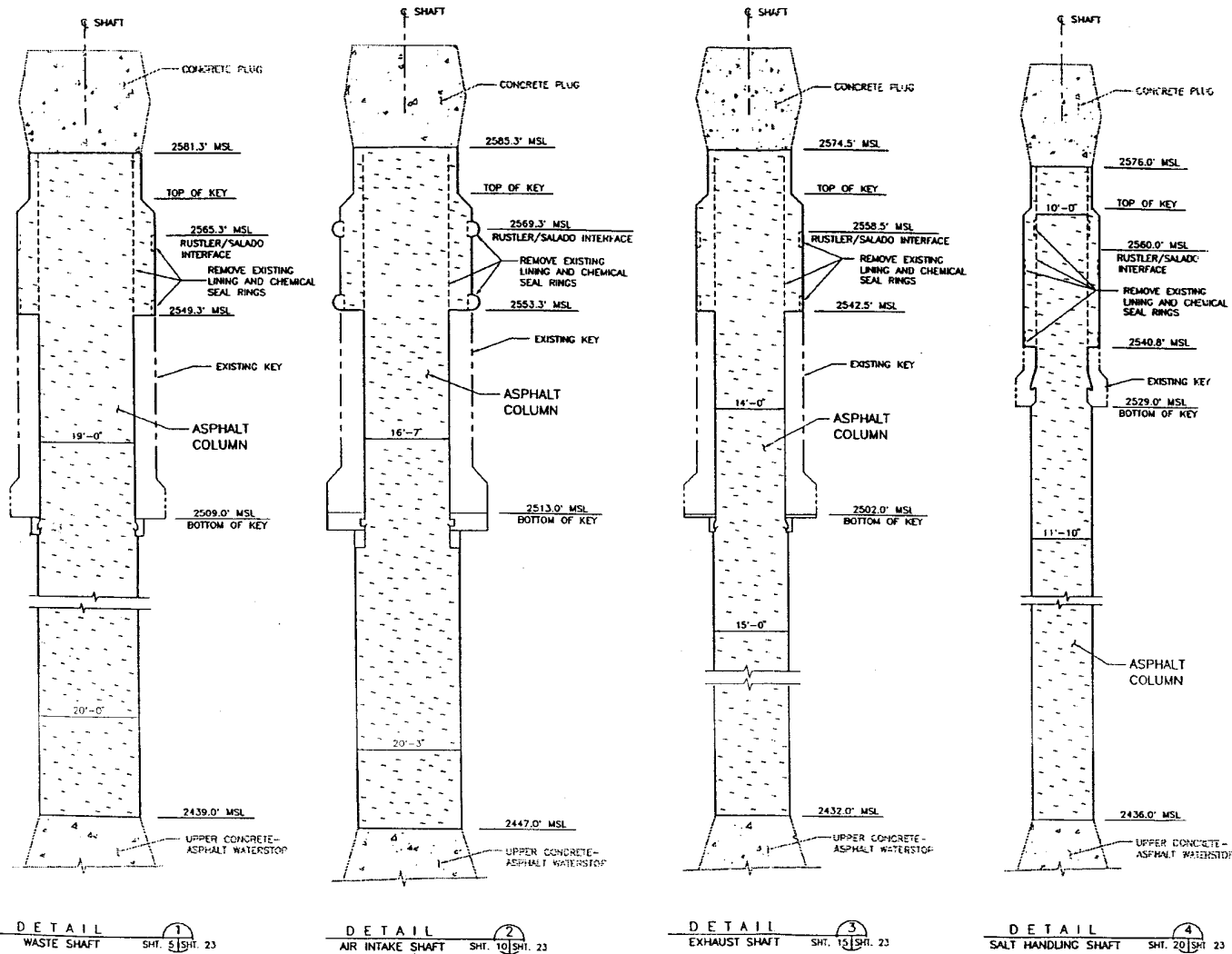




*Albert W. Dennis*  
1-2-96

SCALE IN FEET  
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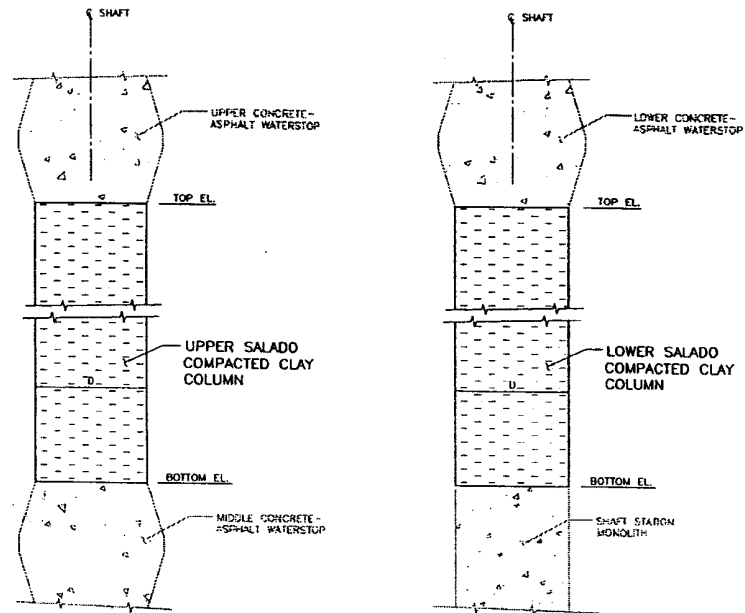


*Albert W. Dennis*  
8-2-96

SCALE IN FEET  
0 5 10 15 20 25

0	8/2/96	ISSUED FOR RECORDS PACKAGE	BY: <i>SA</i>
REV.	DATE	DESCRIPTION	BY: CK: <i>APP</i>
<b>SANDIA NATIONAL LABORATORIES</b> WIPP A/E SUPPORT WIPP SHAFT SEALING SYSTEM ASPHALT COLUMN			
CONTRACT NO. AC-4009 NAME: <i>SA</i> DATE: <i>8/2/96</i> BY: <i>SA</i> CK: <i>SA</i> APP: <i>SA</i> APP: <i>SA</i>		SHEET NO. 23 OF 28 SCALE: 1/2" = 1'-0" SHEET NO. 23 OF 28	

NAME: C:\V\WIPP\DESIGN\100-102.DWG DATE: MAY 06, 1996 TIME: 4:09 PM



DETAIL  
SEE TABLE 1 FOR DETAILS  
NO SCALE  
SHT. 5  
SHT. 10  
SHT. 15  
SHT. 20  
SHT. 24

TABLE 1

SHAFT	NOMINAL SHAFT DIAMETER D	UPPER SALADO COMPACTED CLAY COLUMN			LOWER SALADO COMPACTED CLAY COLUMN		
		TOP EL. (FT. MSL)	BOTTOM EL. (FT. MSL)	TOTAL HT. (FT.)	TOP EL. (FT. MSL)	BOTTOM EL. (FT. MSL)	TOTAL HT. (FT.)
WASTE	20'-0"	2389.0	2037.5	351.5	1382.0	1286.0	96.0
AIR INTAKE	20'-3"	2397.0	2053.0	344.0	1389.5	1296.0	93.5
EXHAUST	15'-0"	2382.0	2042.0	340.0	1383.0	1285.0	98.0
SALT HANDLING	11'-10"	2386.0	2051.0	335.0	1391.0	1284.0	107.0

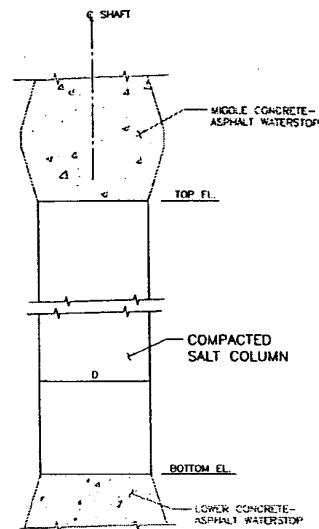


Albert W. Dennis  
9-2-96

0	8/2/96	ISSUED FOR RECORDS PACKAGE	BY: [Signature]
REV.	DATE	DESCRIPTION	BY: CK, APP
<b>SANDIA NATIONAL LABORATORIES</b> WIPP A/E SUPPORT WIPP SHAFT SEALING SYSTEM UPPER AND LOWER SALADO COMPACTED CLAY COLUMNS			
CONTRACT NO. AC-0005 NAME: [Signature] DATE: [Signature] BY: [Signature] CK: [Signature] APP: [Signature]		SCALE: SIZE B SML. Dwg. No. SML-007 SHEET NO. 24 OF 28	

NAME: C:\WIPP\PROJECTS\00-584-BUG DATE: MAY 06, 1996 TIME: 4:52 PM

Waste Isolation Pilot Plant  
Hazardous Waste Permit  
August 31, 2001



DETAIL  
SEE TABLE 1 FOR DETAILS  
NO SCALE

1  
SHT. 5 SHT. 25  
SHT. 10  
SHT. 15  
SHT. 20

TABLE 1

SHAFT	NOMINAL SHAFT DIAMETER D	COMPACTED SALT COLUMN		
		TOP EL. (FT. MSL)	BOTTOM EL. (FT. MSL)	TOTAL HT. (FT.)
WASTE	20'-0"	1987.5	1432.0	555.5
AIR INTAKE	20'-3"	2003.0	1439.5	563.5
EXHAUST	15'-0"	1992.0	1433.0	559.0
SALT HANDLING	11'-10"	2001.0	1441.0	560.0



Albert W. Dennis  
8-2-96

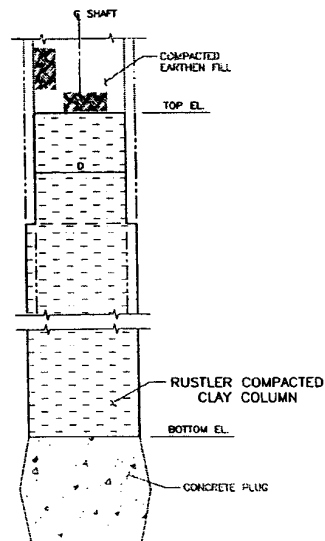
0	8/2/96	ISSUED FOR RECORDS PACKAGE	BY: [Signature]
REV.	DATE	DESCRIPTION	BY: [Signature]
<b>SANDIA NATIONAL LABORATORIES</b> WIPP A/E SUPPORT WIPP SHAFT SEALING SYSTEM COMPACTED SALT COLUMN			
NAME: [Signature] DATE: 8/2/96		CONTRACT NO. AC-480B SHEET NO. 25 OF 28	

WIPP-CATV-WIPP-PROCESSOR-105.DWG DATE: MAY 06, 1996 TIME: 4:14 PM

### WIPP Shaft Sealing System Concrete Plug

Drawing SNL 007 26 of 28 not currently available. Drawing is not displayed in the Permit.

Waste Isolation Pilot Plant  
Hazardous Waste Permit  
August 31, 2001



DETAIL  
SEE TABLE 1 FOR DETAILS  
NO SCALE

SHT. 4  
SHT. 9  
SHT. 14  
SHT. 19

1  
SHT. 27

TABLE 1

SHAFT	NOMINAL SHAFT DIAMETER D	RUSTLER COMPACTED CLAY COLUMN		
		TOP EL. (FT. MSL)	BOTTOM EL. (FT. MSL)	TOTAL HT. (FT.)
WASTE	19'-0"	2836.0	2601.3	234.7
AIR INTAKE	16'-7"	2840.0	2605.3	234.7
EXHAUST	14'-0"	2829.0	2594.5	234.5
SALT HANDLING	10'-0"	2830.0	2596.0	234.0

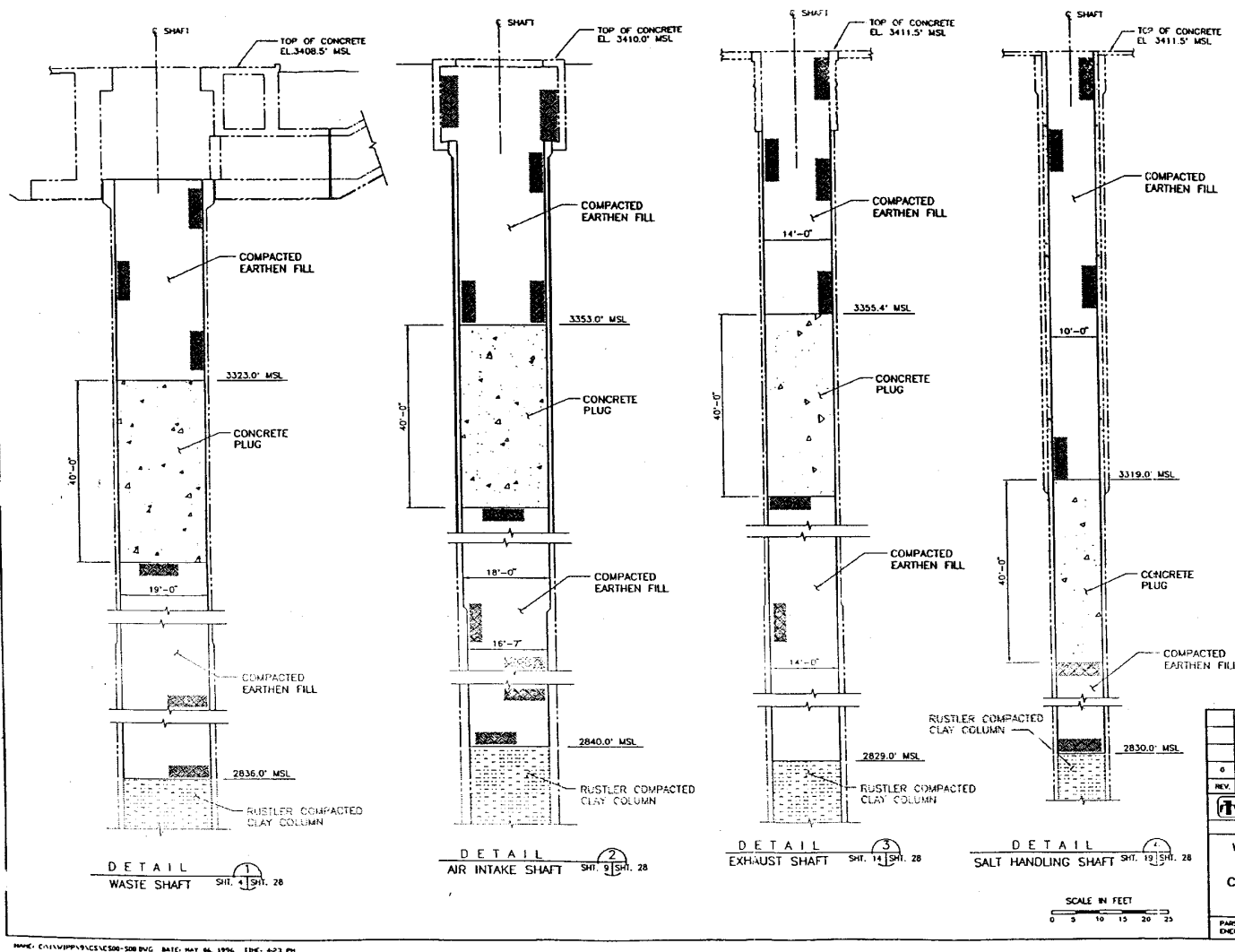


*Albert W. Dennis*  
9-2-96

REV.	DATE	DESCRIPTION	BY	CHK	APP
1	8/1/96	ISSUED FOR RECORDS PACKAGE	AWD		
SANDIA NATIONAL LABORATORIES					
WIPP A/E SUPPORT					
WIPP SHAFT SEALING SYSTEM					
RUSTLER COMPACTED CLAY COLUMN					
PARSONS BRINCKERHOFF ENERGY SERVICES, INC.			SCALE:	SIZE:	SHEET NO.
			8	27 OF 28	

E-30

NAME: C:\NIPPP\NIPPS\CDR-587.DWG DATE: MAY 06, 1996 TIME: 4:21 PM



*Albert W. Dennis*  
9-2-96

0	8/2/96	ISSUED FOR RECORDS PACKAGE	BY: SLP
REV.	DATE	DESCRIPTION	BY: CL APP
<b>SANDIA NATIONAL LABORATORIES</b> WIPP A/E SUPPORT WIPP SHAFT SEALING SYSTEM COMPACTED EARTHEN FILL AND CONCRETE PLUG			
NAME	DATE	BY	DATE
CL	8/2/96	CL	8/2/96
APP	8/2/96	APP	8/2/96
APP	8/2/96	APP	8/2/96
PARSONS BRINCKERHOFF	SCALE	SIZE	S&L DPC NO.
ENERGY SERVICES, INC.	B	B	S&L-007
		SHEET NO.	28 OF 28